	Application No.	Applicant(s)	
	09/972,321	CHILTON, KENDEL	L A.
Notice of Allowability	Examiner	Art Unit	
	JEAN B. FLEURANTIN	2162	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	i (OR REMAINS) CLOSED in this ) or other appropriate communica RIGHTS. This application is subje	application. If not includ- tion will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>3 November 2004</u> .			
2. The allowed claim(s) is/are <u>1-34</u> .			
3. $\boxtimes$ The drawings filed on <u>05 October 2001</u> are accepted by the	ne Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority unanal All b) ☐ Some* c) ☐ None of the: <ol> <li>Certified copies of the priority documents have:</li> <li>Certified copies of the priority documents have:</li> <li>Copies of the certified copies of the priority documents have:</li> <li>Topies of the certified copies of the priority documents have:</li> <li>Copies of the certified copies of the priority documents have:</li> <li>Certified copies not received:</li> </ol> </li> </ul>	e been received. e been received in Application No	)	ition from the
Applicant has THREE MONTHS FROM THE "MAILING DATE' noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the re	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			IOTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) including changes required by the Notice of Draftsper  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	son's Patent Drawing Review(P - 's Amendment / Comment or in the drawn of the drawn on the drawn	ne Office action of awings in the front (not the	e back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summ Paper No./Mail 08), 7. ☐ Examiner's Ame	Date .	
		SHAHID A PRIMARY EXA	LAM AMINER

1. Applicant's arguments filed on 3 November 2004 with respect to claims 1-30 are persuasive. Therefore, the rejection of claims 1-30 under 35 U.S.C. 103(a) is being now withdrawn.

Claims 31-34 are added.

Claims 1-34 remain pending for examination.

## **REASONS FOR ALLOWANCE**

2. Claims 1-34 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1, 7 and 14, the claimed features "a memory board for a data storage system, comprising memory which is configured to store a doubly linked list data structure; and automatically modify the doubly linked list data structure in accordance with the modify command and provide a result to the processor of the data storage system through the interface in response to modifying the doubly linked list data structure" in combination with other element of the independent claims would not found anticipated or obvious over the prior art made of record. With respect to claim 21, the claimed features "a memory board control circuit for accessing a doubly linked list data storage system of a data storage system, the memory board control circuit being mountable to a memory board, the memory board control circuit comprising automatically modify the doubly linked list data structure in accordance with the modify command and provide a result to the processor of the data storage system through the

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interface in response to modifying the doubly linked list data structure" in combination with other element of the independent claims would not found anticipated or obvious over the prior art made of record.

The dependent claims, being definite, further limiting, and fully enabled by the specification are also allowed.

The closest prior art, U.S. Patent No. 5,884,098 issued to Mason, Jr., relates to the caching of data. U.S. Patent No. 6,581,063 issued to Kirkman, relates to software data structures commonly known as linked lists but fail to teach the above limitations. EP 0114190 issued to Hartung relates to data handling hierarchical.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## **CONTACT INFORMATION**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEAN B. FLEURANTIN whose telephone number is 571 – 272-4035. The examiner can normally be reached on 7:05 to 4:35.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN E BREENE can be reached on 571 – 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jean Boite Fleurantin

March 16, 2005

SHAHID ALAM PRIMARY EXAMINER